

CLAIMS

I Claim:

1. An implement mounting system, comprising:

a support frame;

a ball joint attached to said support frame;

a support arm having a first end and a second end, wherein said first end is attached to said ball joint and wherein said second end receives an attachment structure for an implement; and

a brace member attached between said support frame and said support arm.

2. The implement mounting system of Claim 1, wherein said ball joint is comprised of a ball-and-socket structure for providing various pivoting movements of said support arm.

3. The implement mounting system of Claim 1, wherein said brace member has an angle with respect to said support arm, wherein said angle is less than seventy-five degrees.

4. The implement mounting system of Claim 1, wherein said brace member has an angle with respect to said support arm, wherein said angle is less than seventy-five degrees and greater than ten degrees.

1 5. The implement mounting system of Claim 1, wherein said brace member is
2 attached to said support frame via a ball-and-socket joint.

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5 6. The implement mounting system of Claim 5, wherein said brace member is
6 attached to said support arm via a ball-and-socket joint.

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9 7. The implement mounting system of Claim 1, wherein said brace member is
10 attached to a cross member, wherein said cross member is attached transversely to said
11 support arm.

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14 8. The implement mounting system of Claim 7, wherein said cross member
15 receives a pair of vertical actuators for allowing control of the lift and roll.

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18 9. The implement mounting system of Claim 7, wherein said brace member is
19 attached near a distal end of said cross member.

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22 10. The implement mounting system of Claim 9, wherein said distal end of
23 said cross member is on an opposite side of said support arm of where said brace
24 member is attached to said support frame.

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27 11. The implement mounting system of Claim 7, wherein said cross member is
28 attached to a central location upon said support arm.

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2 12. The implement mounting system of Claim 1, wherein said brace member is
3 attached to a rear support of said support frame.
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6 13. The implement mounting system of Claim 1, wherein said brace member is
7 attached to a side support of said support frame.
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10 14. An implement mounting system for supporting an implement utilized upon
11 a tractor, comprising:

12 a ball joint;

13 a support arm having a first end and a second end, wherein said first end is
14 attached to said ball joint and wherein said second end receives an attachment structure
15 for an implement; and

16 a brace member attached to said support arm.
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19 15. The implement mounting system of Claim 14, wherein said ball joint is
20 comprised of a ball-and-socket structure for providing various pivoting movements of
21 said support arm.
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24 16. The implement mounting system of Claim 14, wherein said brace member
25 has an angle with respect to said support arm, wherein said angle is less than seventy-
26 five degrees.
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1 17. The implement mounting system of Claim 14, wherein said brace member
2 has an angle with respect to said support arm, wherein said angle is less than seventy-
3 five degrees and greater than ten degrees.

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6 18. The implement mounting system of Claim 14, wherein said brace member
7 is attached to said support arm via a ball-and-socket joint.

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10 19. The implement mounting system of Claim 14, wherein said brace member
11 is attached to a cross member, wherein said cross member is attached transversely to
12 said support arm.

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15 20. The implement mounting system of Claim 19, wherein said cross member
16 receives a pair of vertical actuators for allowing control of the lift and roll.